



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Nonparametric Statistics
Module level,if applicable:	Undergraduate
Code:	MAT6364
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6 th
Module coordinator:	Elly Arliani, M.Si.
Lecturer(s):	1. Elly Arliani, M.Si.; 2. Retno Subekti, MSc.; 3. Syarifah Inayati, S.Pd., M.Sc.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective courses
Teaching format/class hoursperweekduring the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Statistics (MKU6210)
Course outcomes:	After taking this course, the students have the ability to: CO1. Demonstrate respect for the views, opinions or original findings of others. CO2. Demonstrate the ability to think critically, creatively,

	<p>innovatively, and systematically in the development of science and technology, both independently and in groups.</p> <p>CO3. Demonstrate the ability to convey mathematical ideas in writing and verbally based on values of honesty</p> <p>CO4. Understand statistical inference</p> <p>CO5. Distinguish parametric and nonparametric statistics tests</p> <p>CO6. Understand the one-sample case test and be able to apply it.</p> <p>CO7. Understand the case of two related samples test and be able to apply it.</p> <p>CO8. Understand the case of two independent samples test and be able to apply it.</p> <p>CO9. Understand the case of k related samples test and be able to apply it.</p> <p>CO10. Understand the case of k independent samples test and be able to apply it.</p> <p>CO11. Understand the measures of correlation and their tests of significance and be able to apply it.</p> <p>CO12. Resolve the problem of using concepts in non-parametric statistics manually or using statistical software.</p>
<p>Content:</p>	<p>This course discusses statistical inference, the one-sample case, the case of two related samples, the case of two independent samples, the case of k related samples, the case of k independent samples, and measures of correlation and their tests of significance.</p>
<p>Study/exam achievements:</p>	<p>CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a</p>

	<p>good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>C02</td> <td>Presentation</td> <td>Observation</td> <td>10%</td> </tr> <tr> <td>2</td> <td>C04, C05, C06, C07, C08, C09, C010, C011</td> <td>a. Class participation (during discussions and presentations) b. Quiz c. Assignment</td> <td>Observation Written test Written test</td> <td>10% 15% 15%</td> </tr> <tr> <td>3</td> <td>C04, C05, C06, C07</td> <td>Mid-Term Examination</td> <td>Written test</td> <td>25%</td> </tr> <tr> <td>4</td> <td>C08, C09, C010, C011</td> <td>Final Examination</td> <td>Written test</td> <td>25%</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	C02	Presentation	Observation	10%	2	C04, C05, C06, C07, C08, C09, C010, C011	a. Class participation (during discussions and presentations) b. Quiz c. Assignment	Observation Written test Written test	10% 15% 15%	3	C04, C05, C06, C07	Mid-Term Examination	Written test	25%	4	C08, C09, C010, C011	Final Examination	Written test	25%	Total				100%
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Forms of media:	Board, LCD Projector, Laptop/Computer																														
Literature:	<ol style="list-style-type: none"> Siegel Sidney and Castellan J.N. 1988. <i>Nonparametric Statistic for the Behavioral Sciences</i>. NewYork: Mc.Graw-Hill Co. Conover, W.J. 1980. <i>Practical Nonparametric Statistics</i>. NewYork: John Wiley and Son Wijaya. 2000. <i>Statistika Nonparametrik (Aplikasi Program SPSS)</i>. Bandung:lfabeta 																														

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3				✓						
CO4					✓					
CO5					✓					
CO6					✓					

